

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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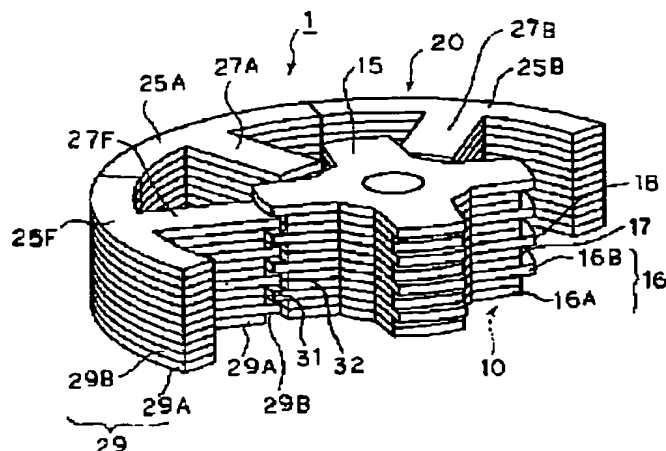
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APPLICANT : NISSAN MOTOR CO LTD;

INVENTOR : OKI TOSHIHARU;

INT.CL. : H02K 19/10 H02K 1/14 H02K 1/24

TITLE : RELUCTANCE MOTOR



**ABSTRACT :** PROBLEM TO BE SOLVED: To provide a reluctance motor front which high torque can be obtained, even if the motor is small-sized.

**SOLUTION:** Individual pieces 25A-25F of a laminated core are formed by repeatedly laminating one core piece 29B, having a smaller circular-arcuate diameter upon one core piece 29A having a larger circular-arcuate diameter and two core pieces 29A, having the larger circular-arcuate diameters upon the piece 29B. Then, after winding sections are formed by vertically winding windings around the field magnet poles 27A-27F of the core pieces 25A-25F, a stator is formed by coupling the six pieces 25A-25F with each other. In addition, a rotor core 10 is manufactured by repeatedly laminating one rotor piece 16B, having a larger circular-arcuate diameter upon the laminated body of two rotor pieces 16A having a smaller circular-arcuate diameter and two rotor pieces 16A having the smaller circular-arcuate diameter upon the piece 16B. The rotor core 10 is formed by laminating the rotor pieces 16 having different circular-arcuate diameters upon another in such a way that the parts overlapping the core pieces 29 of the stator 20 can be formed in the diametral direction.

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